Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method for modulating levels of vWF or FVIII in an animal, the method comprising

administering to the animal an <u>effective dose of an inhibitor of agent that causes</u> an increase or a decrease in ST3Gal-IV sialyltransferase <u>enzyme</u> activity, <u>wherein said animal is suffering from or is at risk of developing atherosclerosis or a blood clotting disorder, and whereby levels of vWF or FVIII in the animal <u>are decreased</u>.</u>

2-5. (Canceled)

- 6. (Currently amended) The method of claim [[2]] 1, wherein the method is performed in conjunction with administration of a drug for which blood clotting is a potential side effect.
- 7. (Currently amended) The method of claim 6, wherein the agent-ST3Gal-IV sialyltransferase inhibitor is administered before or simultaneously with the drug for which blood clotting is a potential side effect.
- 8. (Currently amended) The method of claim [[2]] 1, wherein the method is performed as a prophylactic measure against atherosclerosis.
- 9. (Original) The method of claim 8, wherein the atherosclerosis is associated with coronary artery disease or peripheral vascular disease.

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- 10. (Currently amended) The method of claim [[2]] 1, wherein the method is performed as a therapeutic measure against atherosclerosis.
- 11. (Original) The method of claim 10, wherein the atherosclerosis is associated with coronary artery disease or peripheral arterial disease.
- 12. (Currently amended) The method of claim [[2]] 1, wherein platelet formation is not significantly affected by administration of the agent-ST3Gal-IV sialyltransferase inhibitor to the animal

13-28. (Canceled)

- 29. (New) The method of claim 1, further comprising monitoring the animal for levels of vWF or FVIII.
- 30. (New) The method of claim 29, further comprising adjusting the dose of the ST3Gal-IV sialyltransferase inhibitor to maintain vWF at a desired level.
- 31. (New) The method of claim 29, wherein the ST3Gal-IV sialyltransferase inhibitor is a competitive inhibitor of ST3Gal-IV substrate.
- 32. (New) The method of claim 31, wherein the ST3Gal-IV sialyltransferase inhibitor is a structural analog of a ST3Gal-IV substrate.
 - 33. (New) The method of claim 32, wherein the substrate is a donor substrate.
- 34. (New) The method of claim 33, wherein the donor substrate is CMP-sialic acid.

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- 35. (New) The method of claim 32, wherein the substrate is an acceptor substrate.
- 36. (New) The method of claim 32, wherein the structural analog is a transition state analog.
- 37. (New) The method of claim 6, wherein the drug for which blood clotting is a potential side effect is selected from the group consisting of an anti-cancer drug, a corticosteroid, raloxifene, and a birth control agent.
- 38. (New) The method of claim 37, wherein the anti-cancer drug is tamoxifen.
- 39. (New) The method of claim 37, wherein the birth control agent is an estrogen or a progestin.